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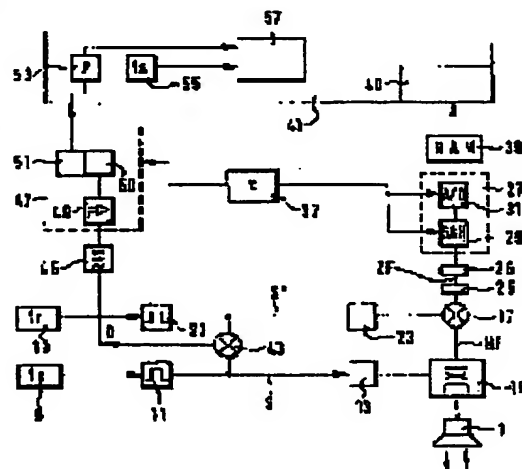
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(54) FILLED-LEVEL MEASURING APPARATUS OPERATED BY MICROWAVE

(57)Abstract:

PROBLEM TO BE SOLVED: To enable high-precision measurement by finding the real time-interval between a plurality of points of an echo signal corresponding to a plurality of sampling points, from a time interval produced in a unit time between a plurality of points of time of an intermediate frequency signal, using a ratio of time expansion in a unit time determined by an evaluation circuit.

SOLUTION: With a unit time τ set by a clock generator 37, a sample-and-hold circuit 29 and an analog-to-digital converter 31 are clock-controlled, and digital sampled values are stored in a memory 39. A computing unit 57 is an evaluation unit 41 determined a ratio of time expansion at the unit time τ from a period P . The real time-interval Δt between two points of an echo signal corresponding to two sampling points of an intermediate frequency signal ZF is found, from the time interval between the two sampling points using this ratio of time expansion.



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